Amendments to the Specification:

Please replace page 9, paragraph 2, with the following amended paragraph:

Deviation detection engine 114 receives both the actual current snapshot of sensor values and the set of sensor value estimates from the estimated state generator 112, and compares the two. A variety of tests can be used, including the sequential probability ratio test (SPRT), or a CUSUM test, both of which are known in the art. Preferably, the set of actual sensor values and the set of estimated sensor values are differenced to provide residual values, one for each sensor. Applying the SPRT to a sequence of such residual values for a given sensor provides an advantageously early indication of any difference between the actual sensor values and what is expect under normal operation.